

8
Swan Hunters of Weyham Richardson

85 1127

Profile plan

Not correct.

No 3 Bag. 1.

S.S. AURANIA.

NEWCASTLE ON TYNE.

Report No. 78286.



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Lloyd's Register
Foundation

20.6.19.

20.6.19.

1127

Nº 498.

TWIN SCREW PASSENGER & CARGO STEAMER

PROFILE.

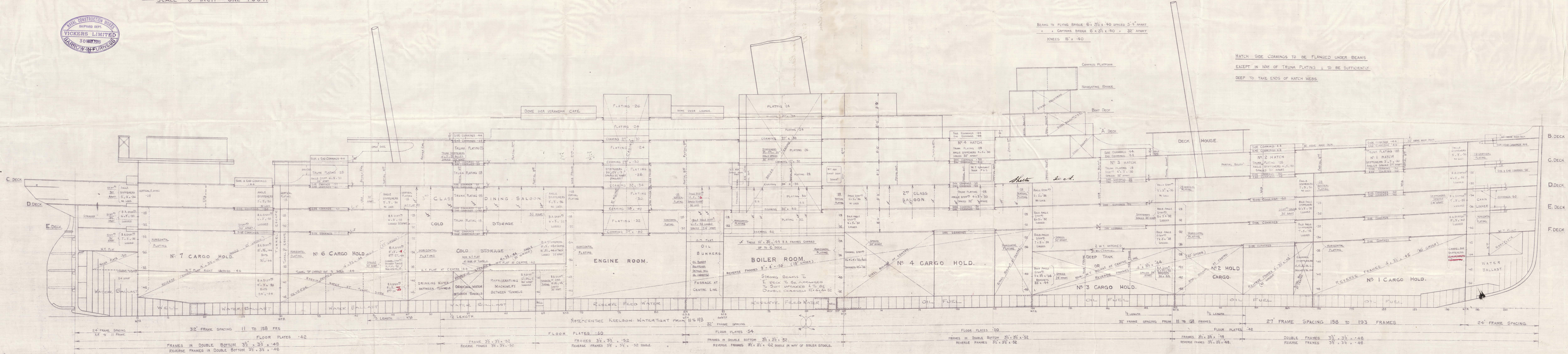
TO CLASS 100 A.I. LLOYDS SHELTER DECK SPECIAL SURVEY.

DIMENSIONS:- 519'-0" B.P. X 65'-0" MLD X 43'-0" MLD TO "C" SHELTER DECK.

SCALE 1/8" INCH = ONE FOOT.



BOAT DECK BEAMS 5 1/2 x 3 x 36 B.A. FOR 20 FT. SPAN SPACED TO SUIT BOAT DAVITS 5 1/2 x 3 x 36 ANGLES ON EVERY FRAME ELSEWHERE KNEES 15 x 40.
A DECK BEAMS 7 1/2 x 3 x 42 B.A. ON EVERY FRAME IN WAY OF BRIDGE SIDE PLATING. KNEES 25 x 40 5/8 x 3 x 36 B.A. ON EVERY FRAME CLEAR OF SIDE PLATING & KNEES 15 x 40.
B DECK BEAMS 8 x 3 x 3 x 37 1/2 WEB 3/4 x 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 28 x 50. AT AFT END CLEAR OF BRIDGE, BEAMS 6 x 3 x 40 B.A. EVERY FRAME, KNEES 15 x 40.
C DECK BEAMS 8 x 3 x 3 x 44 WEB 3/4 x 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 29 x 50. (HORIZONTAL SHELF PLATES 29 x 50 IN LIEU OF KNEES IN WAY OF SALOONS.)
D DECK BEAMS 8 x 3 x 3 x 44 WEB 3/4 x 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 29 x 50.
E & F DECKS BEAMS 8 x 3 x 3 x 37 1/2 WEB 3/4 x 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 31 x 50.
HATCH END BEAMS ON ALL DECKS EXCEPT E & F DECKS TO BE SAME SIZE AS BEAMS OF THEIR RESPECTIVE DECKS. SEE DECK PLAN.
HATCH END BEAMS ON E & F DECKS 4 1/2 x 4 x 52 CHANNELS. KNEES 31 x 50.
BEAMS TO TUNNEL PLAT 9 x 3 x 37 1/2 WEB 3/4 x 50 FLANGES CHANNELS ON EVERY FRAME, KNEES 31 x 50. TO BE CONSIDERED IN CONNECTION WITH DECK PLANS.
SEE SEPARATE SUBMISSION FOR ADDITIONAL STRENGTHENING OF BOTTOM FORWARD & PAINTING ARRANGEMENTS FORWARD.
SEE SEPARATE SUBMISSION FOR CENTRE LINE LONGITUDINAL BULKHEAD.
DETAILS OF OIL BUNKERS.
TUNNEL & WATER TANKS.
BOSSING ARRANGEMENTS.
TYPICAL BULKHEADS INCLUDING DEEP TANKS.
SCANTLINGS & POSITION OF WEB FRAMES AS SHOWN ON DECK PLANS.



see amended plan for 2nd Stiffeners

3rd R.H. 7-5-19

8/11/19

W294-0122



Swan & Hunter.

No 1127.

S.S. "Aurania"

Profile (as built.)

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W294-0125 Lloyd's Register
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SCALE = 1/8" = 1 FOOT.
AS FITTED.



SHIPBUILDERS & ENGINEERS WALLSEND SHIPYARD.

WALLSEND-ON-TYNE SHIP N° 1127.

1.

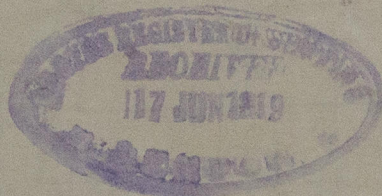
S.H.W.R ss No 1127

Vickers Ltd

No. 498.

Deck Plans.

(Boat. A.B & C)



Not Bag 1.

S.S. AURAKIA

NEWCASTLE ON TYNE.

Report No. 148286.

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W294-0126

6/6/19.

TWIN SCREW PASS & CARGO STEAMER

No. 498.

DECK PLANS SHEET No. 1.

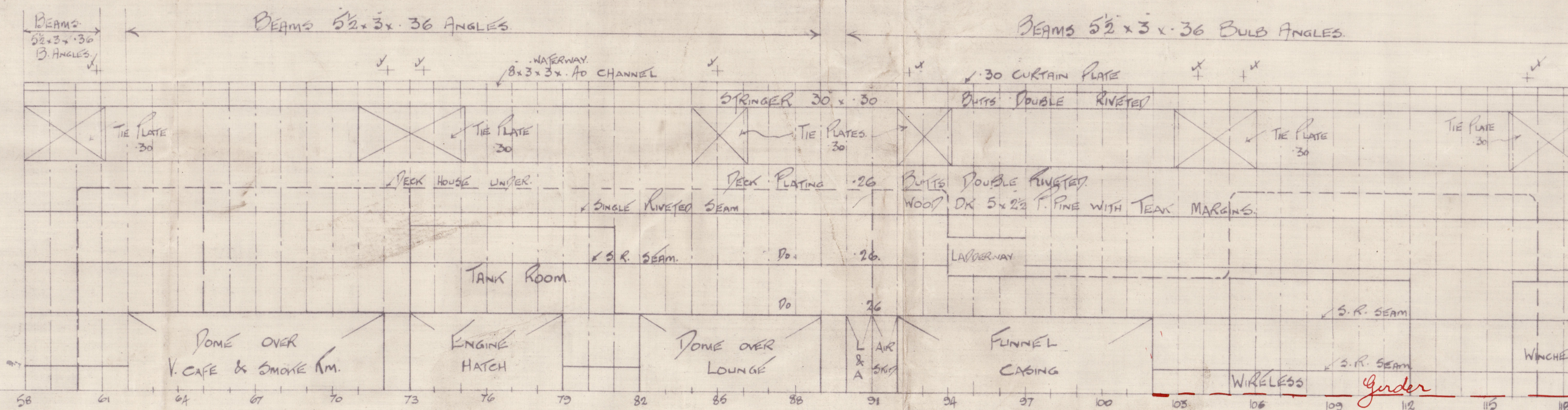
Dimensions: 519.0 B.P. x 65.0 M.D. x 43.0 M.D. to C SHELTER PECK

SCALE 1/8" = 1 FOOT.

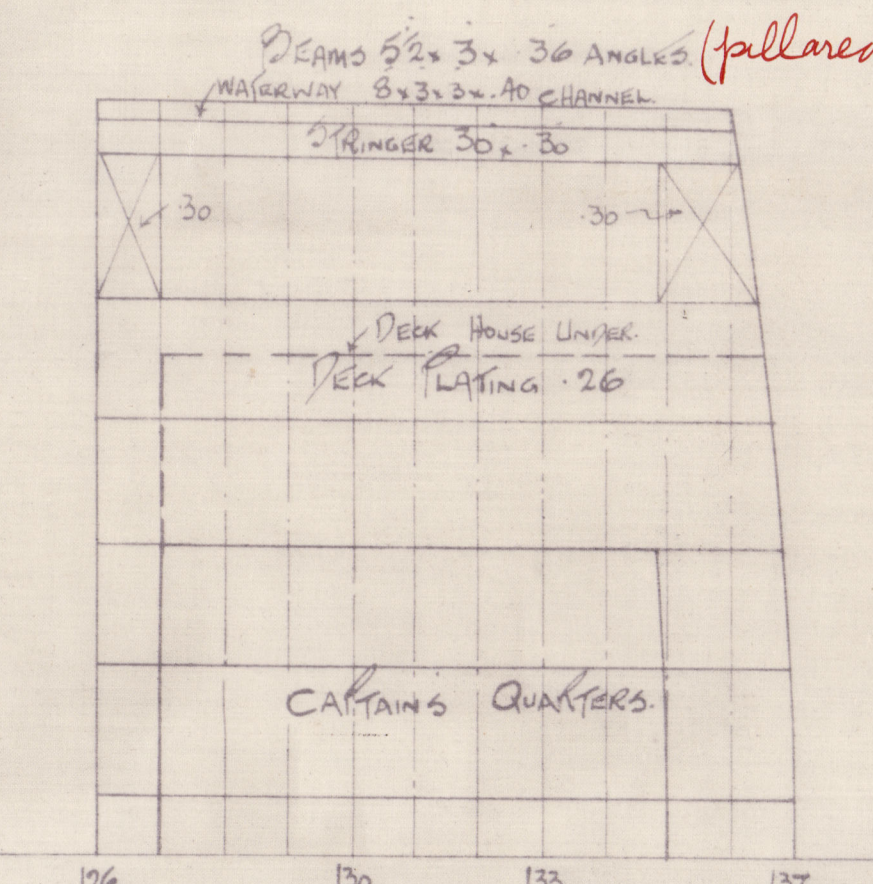
CLASS 100 A.I. LLOYD'S SHELTER PK. SPECIAL SURVEY.

T.S.S. No 498 (YICKERS)
ALSO FOR
ARMSTRONG WHITWORTHS No 970-1
HAWTHORN LESLIES No 500
JOHN BROWN & Co No 498-1
SWAN HUNTER & WIGHAM RICHARDSONS No 1127
X APPROX POSITION OF COAST LIGHTS.

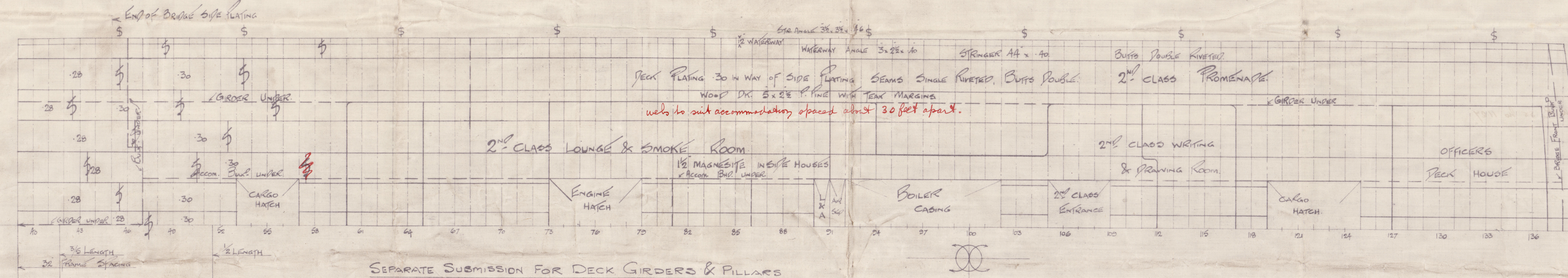
BOAT DECK



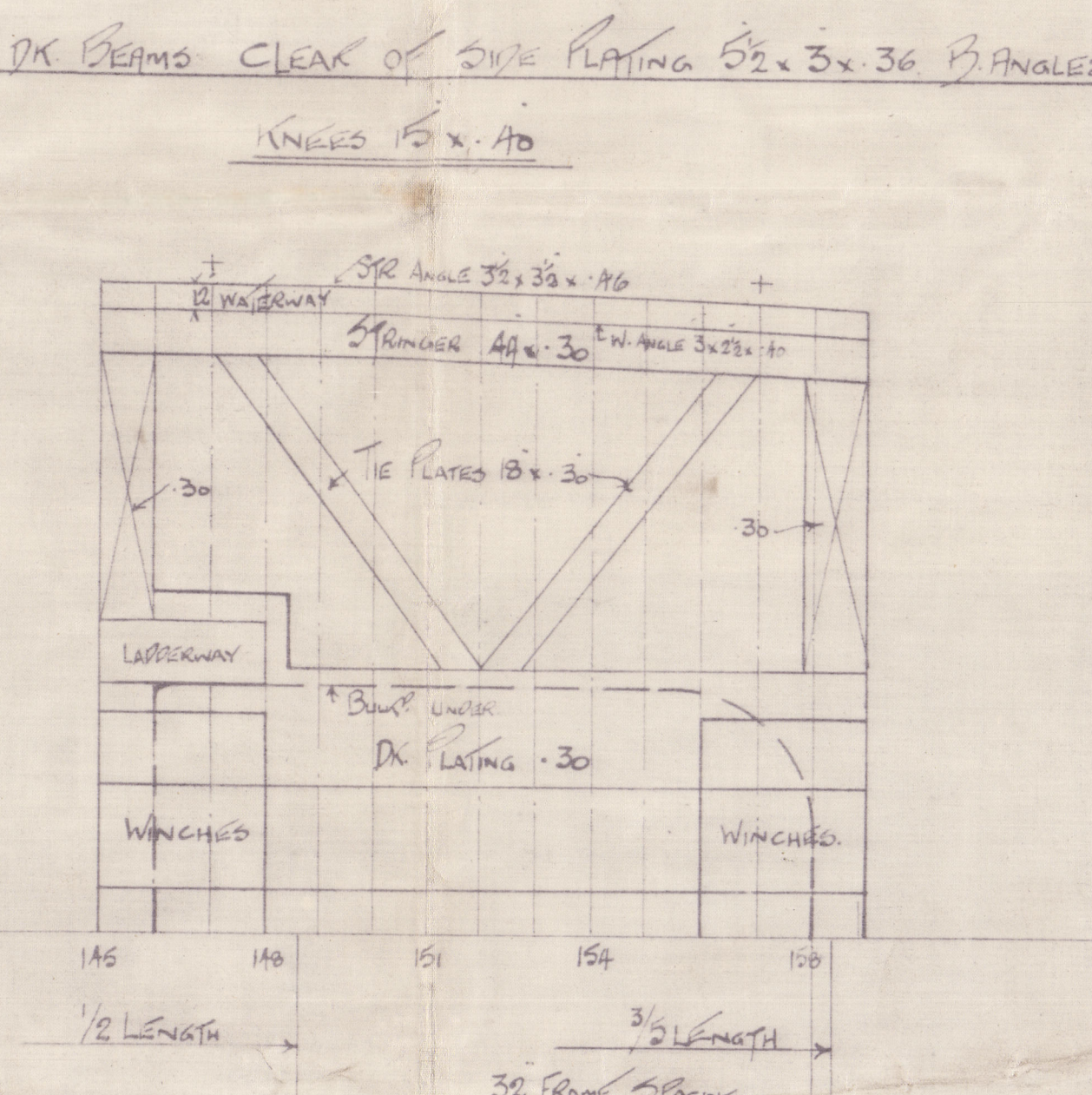
BOAT DECK



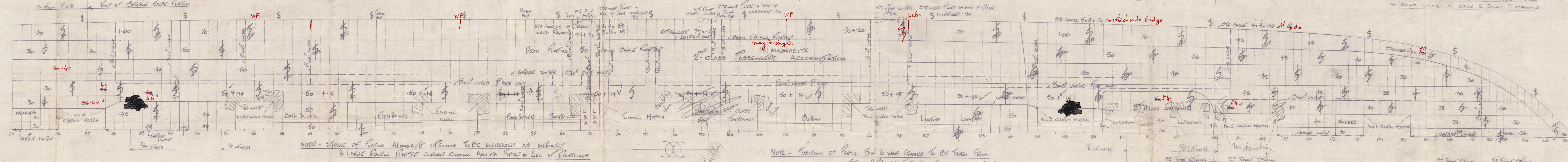
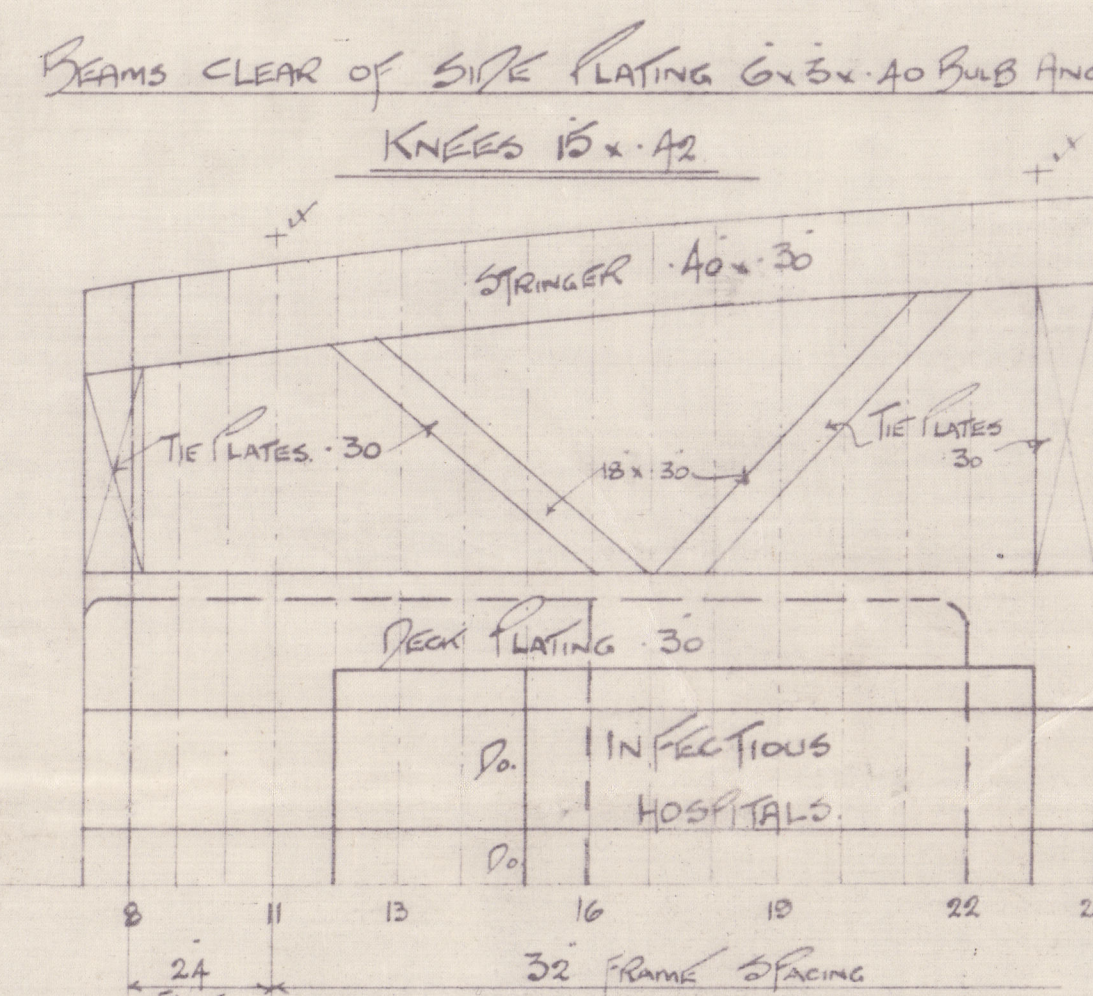
A DECK



A DECK

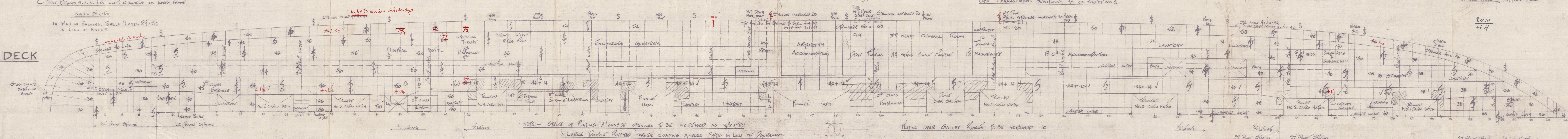


B DECK

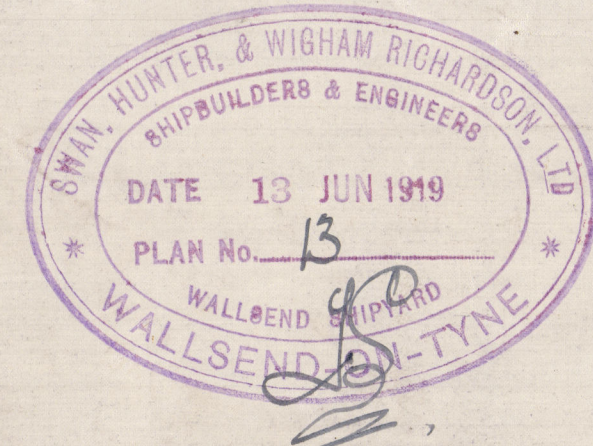


B DECK

C DECK



C DECK



2.



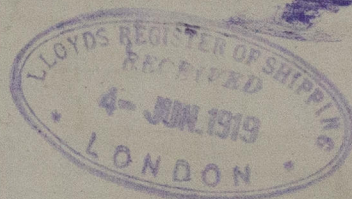
S.H.W.R. SS No 1127

Vickers Ltd

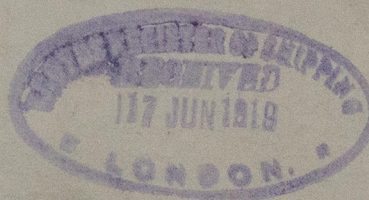
No. 498.

Deck Plans.

(D. E. & F.)



nos Bag 1



SS. ALURANIA
NEWCASTLE ON TYNE.

Report No. 78286.



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W294-0127

6.6.19

TWIN SCREW PASS. & CARGO STEAMER

Nº 498 VICKERS.

DECK PLANS SHEET 2

SCALE 1/8" = 1 FOOT.

DIMENSIONS :- 519' 0" B.P. x 65' 0" M.D. x 43' 0" M.D. TO 'C' SHELTER DECK

CLASS 100 A 1 LLOYDS SHELTER DECK SPECIAL SURVEY

Armstrong Whitworth Nº 9701
Hawthorn Leslie Nº 500
John Brown & Co. Nº 498
John Brown & Co. Nº 1127



D DECK

D DECK BEAMS 8" x 3" x 44" WEB & 50 FLANGES CHANNELS ON EVERY FRAME. HATCH END BEAMS SIMILAR.
KNEES 20" x 50"

END OF BRIDGE side plating
3" BRIDGE

MAIN FRAMES MARKED THIS CARRIED UP TO 'C' DECK

D DECK

E DECK

E DECK BEAMS 9" x 3" x 36" x 37 1/2" WEB & 50 FLANGES CHANNELS ON EVERY FRAME
KNEES 31" x 50"
HATCH END BEAMS IN WAY OF CARGO SPACES 12" x 4" x 40" CHANNELS. KNEES 31" x 50"
with under plates where strong.

Large brackets (under)
sketch to be submitted

BOILER ROOM

STRONG BEAMS TO BE ARRANGED
TO SUIT UPTAKES & TO BE
DOUBLE CHANNELS 12" x 4" x 52"

Sketch and beams 12" Channels
only 4x 7 1/2" side plate from
C.L. to 18" each side

E DECK

F DECK BEAMS 9" x 3" x 36" x 37 1/2" WEB & 50 FLANGES CHANNELS ON EVERY FRAME
KNEES 31" x 50"
HATCH END BEAMS IN WAY OF CARGO SPACES 12" x 4" x 40" CHANNELS. KNEES 31" x 50"
with under plates where strong

F DECK

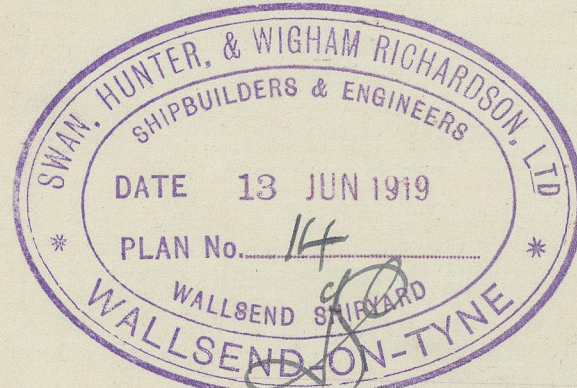
CARGO SPACE
to plating near deep tank

12x56 Channel with 8" flange
4x6x50 side plate

12x56 Channel with 8" flange
4x6x50 side plate

12x56 Channel with 8" flange
4x6x50 side plate

12x56 Channel with 8" flange
4x6x50 side plate



PLAN No. 14

1/5/19

Swan Hunter & Wyham Richardson Ltd

SS 1127 (Cunard Co)

Grasshopper Section (See Plan as built)

Supp. Pickers 498

S.S. AURANIA.

NEWCASTLE ON TYNE.

Report No. 78286.

Hot Bags



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Foundation

W294-0123

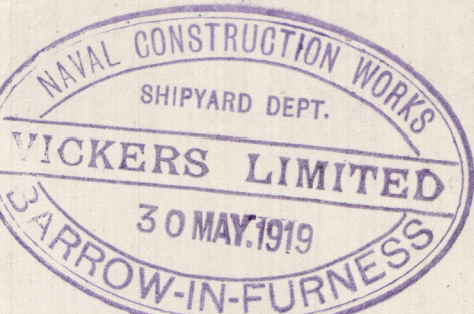
Lloyd's
Blk 4
9/1/19

20.6.19

1127

TWIN SCREW PASSENGER & CARGO STEAMER.

Nº 498



MIDSHIP SECTION.

SCALE 1/2 INCH = ONE FOOT.

LLOYDS CLASS 100A1. SHELTER DECK. SPECIAL SURVEY.

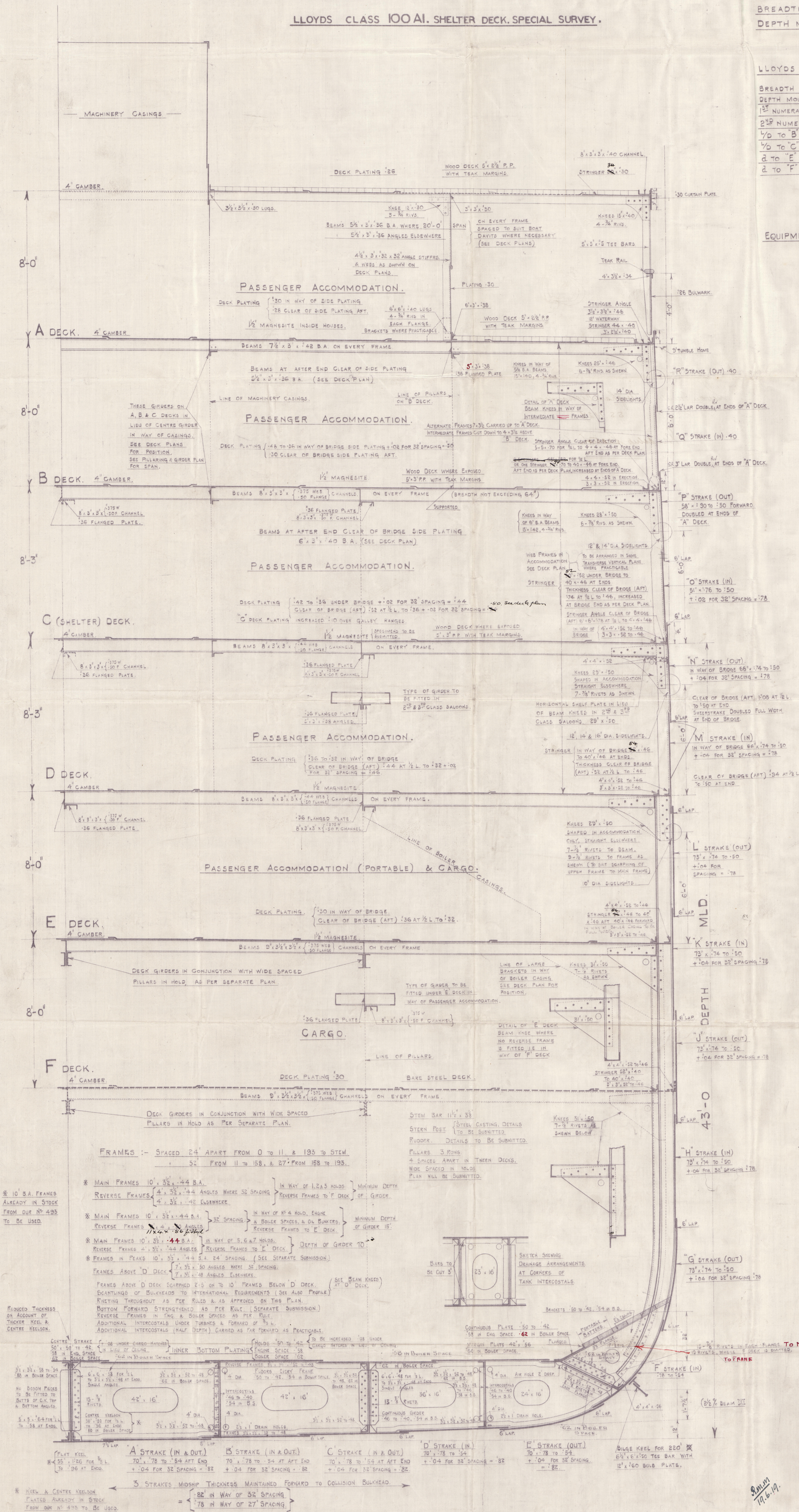
DIMENSIONS.

LENGTH B.P.	519'-0"
BREADTH MLD.	65'-0"
DEPTH MLD. TO C (SHELTER DECK)	43'-0"

LLOYDS NUMERALS & PROPORTIONS.

BREADTH MOULDED	65.0
DEPTH MOULDED TO SHELTER DECK	43.0
1 st NUMERAL 65.0 + (43-8)	100.0
2 nd NUMERAL 100 x 519.0	51900
1/2 D TO 'B' DECK 519.0 ÷ 51.25	10.12
1/2 D TO 'C' DECK 519.0 ÷ 43.00	12.07
d TO 'E' DECK 43.0 - (16.3 + 4.2)	22.7
d TO 'F' DECK 43.0 - (24.3 + 4.2)	14.7

EQUIPMENT AS PER RULES.



TREBLE RIVETED LANDINGS
AS PER SEC. 25 PARA. 6.

Sgt R.A. 2.
9-5-19.



W294-0123

Swan & Hunter.

No 1127.

S/S. "Auraria"

Midship Section
as built.

S.S. AURARIA.

NEWCASTLE ON TYNE.

Report No. 78286.

No 2 Bay 1



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T. S. S. NO. 1127 "AURANIA".

MIDSHIP SECTION.

SCALE $\frac{1}{2}$ " = 1 FOOT.

LLOYDS CLASS 100 A1. SHELTER DECK. SPECIAL SURVEY.

DIMENSIONS.

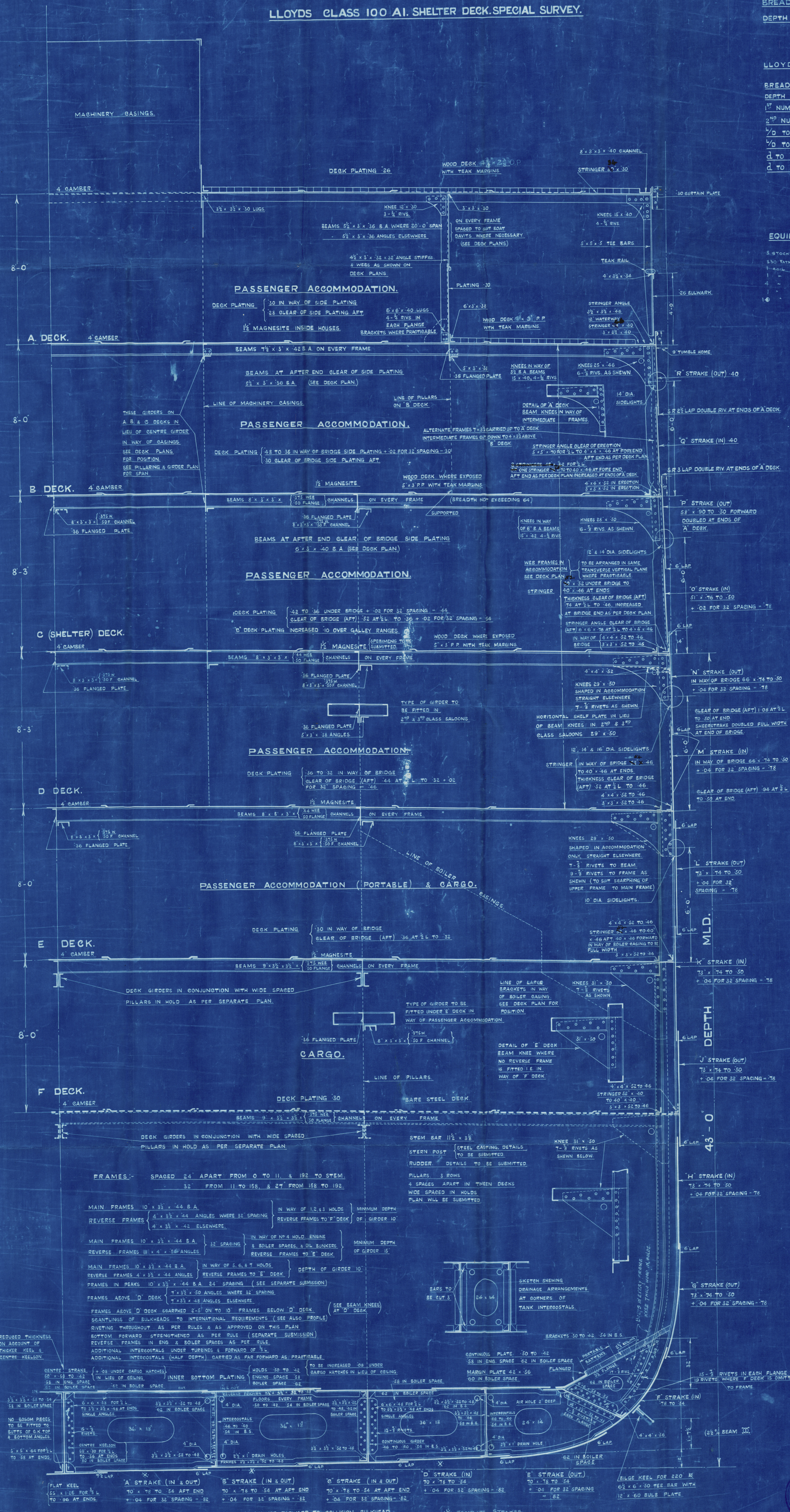
LENGTH B.P.	519'-0"
BREADTH MLD.	65'-0"
DEPTH MLD. TO '0" (SHELTER DECK)	43'-0"

LLOYDS NUMERALS & PROPORTIONS.

BREADTH MOULDED	65'-0"
DEPTH MOULDED TO SHELTER DECK	43'-0"
1 st NUMERAL 65'-0" + (43'-8")	100-0
2 nd NUMERAL 100 x 519'-0"	51900
3 rd NUMERAL 519'-0" - 51'-25"	10-12
4 th NUMERAL 519'-0" - 43'-00"	12-07
5 th NUMERAL 43'-0" - (16'-3" + 4'-2")	22-7
6 th NUMERAL 43'-0" - (24'-3" + 4'-2")	14-7

EQUIPMENT AS PER RULES.

5 STOCKLESS BOWSE ANCHORS	136 CMTS EACH
330 FATHOMS OF 2 1/4" STD. LINK CHAIN CABLE	
1-500' OF 1 1/2" F.P.S. WIRE ROPE	
1-120' OF 1 1/2" F.P.S. WIRE ROPE	
4-120' OF 1 1/2" F.P.S. WIRE ROPE	
1-120' OF 1 1/2" F.P.S. WIRE ROPE	
1-120' OF 1 1/2" F.P.S. WIRE ROPE	
1-120' OF 1 1/2" F.P.S. WIRE ROPE	



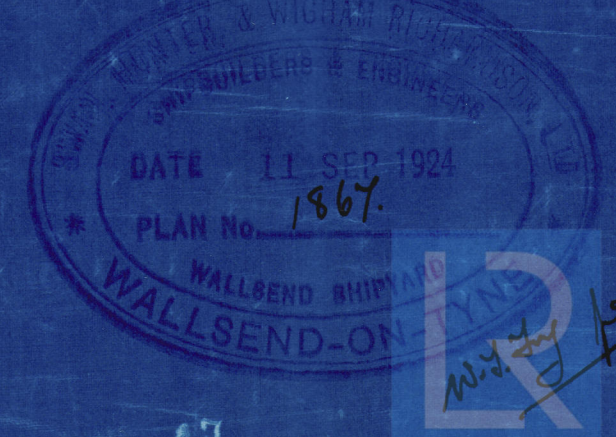
TREBLE RIVETED LANDINGS

AS PER SEC. 25 PARA. 6.

MAIN FRAMES & REV FRAMES

JOGGLED EXCEPT 11th REV FRAMES.

Col. P. L. C. 48 11-8-19
 Mr. J. H. C. 50
 Mr. J. H. C. 51
 Mr. J. H. C. 52
 Mr. J. H. C. 53
 Mr. J. H. C. 54
 Mr. J. H. C. 55
 Mr. J. H. C. 56
 Mr. J. H. C. 57
 Mr. J. H. C. 58
 Mr. J. H. C. 59
 Mr. J. H. C. 60
 Mr. J. H. C. 61
 Mr. J. H. C. 62
 Mr. J. H. C. 63
 Mr. J. H. C. 64
 Mr. J. H. C. 65
 Mr. J. H. C. 66
 Mr. J. H. C. 67
 Mr. J. H. C. 68
 Mr. J. H. C. 69
 Mr. J. H. C. 70
 Mr. J. H. C. 71
 Mr. J. H. C. 72
 Mr. J. H. C. 73
 Mr. J. H. C. 74
 Mr. J. H. C. 75
 Mr. J. H. C. 76
 Mr. J. H. C. 77
 Mr. J. H. C. 78
 Mr. J. H. C. 79
 Mr. J. H. C. 80
 Mr. J. H. C. 81
 Mr. J. H. C. 82
 Mr. J. H. C. 83
 Mr. J. H. C. 84
 Mr. J. H. C. 85
 Mr. J. H. C. 86
 Mr. J. H. C. 87
 Mr. J. H. C. 88
 Mr. J. H. C. 89
 Mr. J. H. C. 90
 Mr. J. H. C. 91
 Mr. J. H. C. 92
 Mr. J. H. C. 93
 Mr. J. H. C. 94
 Mr. J. H. C. 95
 Mr. J. H. C. 96
 Mr. J. H. C. 97
 Mr. J. H. C. 98
 Mr. J. H. C. 99
 Mr. J. H. C. 100



W294-0124

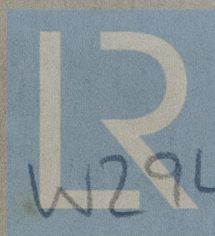
Mallend Slipway Co
N^o 827.
S.S. Aurania
Double Ended Boilers

Copy of Plans passed for the
S.S. "Laconia"

Reported 24/4/22

S.S. AURANIA
NEWCASTLE ON TYNE.
Report No. 48286.

No 32 Day 2



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W294-0128

S'EB

Waltham Slipway Co

N^o 824. "
S.S. Aurania"
Single Ended Boilers

Copy of plans framed for the
S.S. Laconia

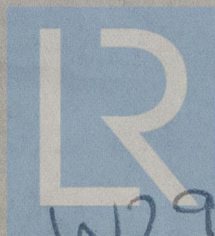
Reported 24/4/22

S. S. AURANIA

NEWCASTLE ON TYNE.

Report No. M 8286.

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W29 4 0129

J.S.S. Aurania



BOILER. CONTRACT N° 826827.

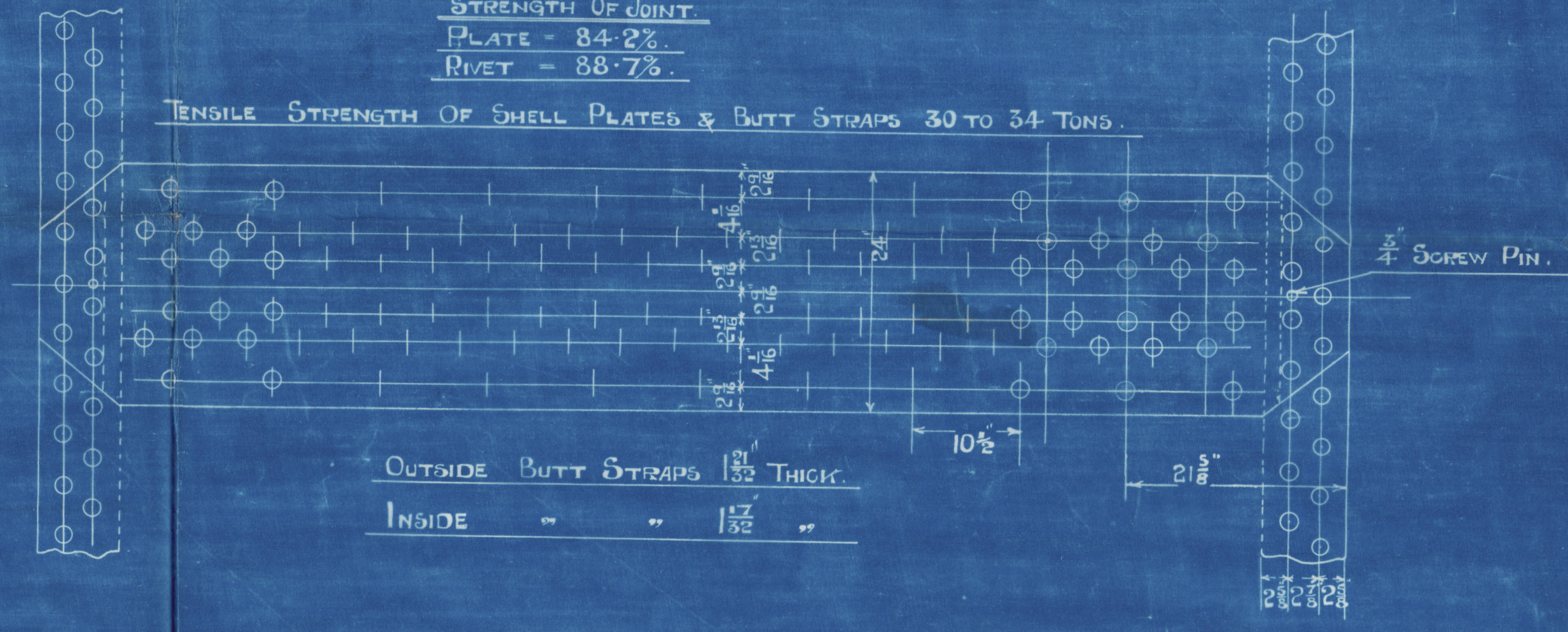
FOR MESSRS. SWAN & HUNTER SHIPB N° 1225 127.
TO BE CONSTRUCTED TO PASS BOARD OF TRADE & LLOYD'S REQUIREMENTS.
3 OFF THIS FOR 826.8
2, " " " 827.C.
BOILERS DESIGNED TO SCANTLINGS OF BRITISH MARINE
ENGINEERING DESIGN & CONSTRUCTION COMMITTEE.

CHECKED BY *[Signature]*
DATE 1/8/19

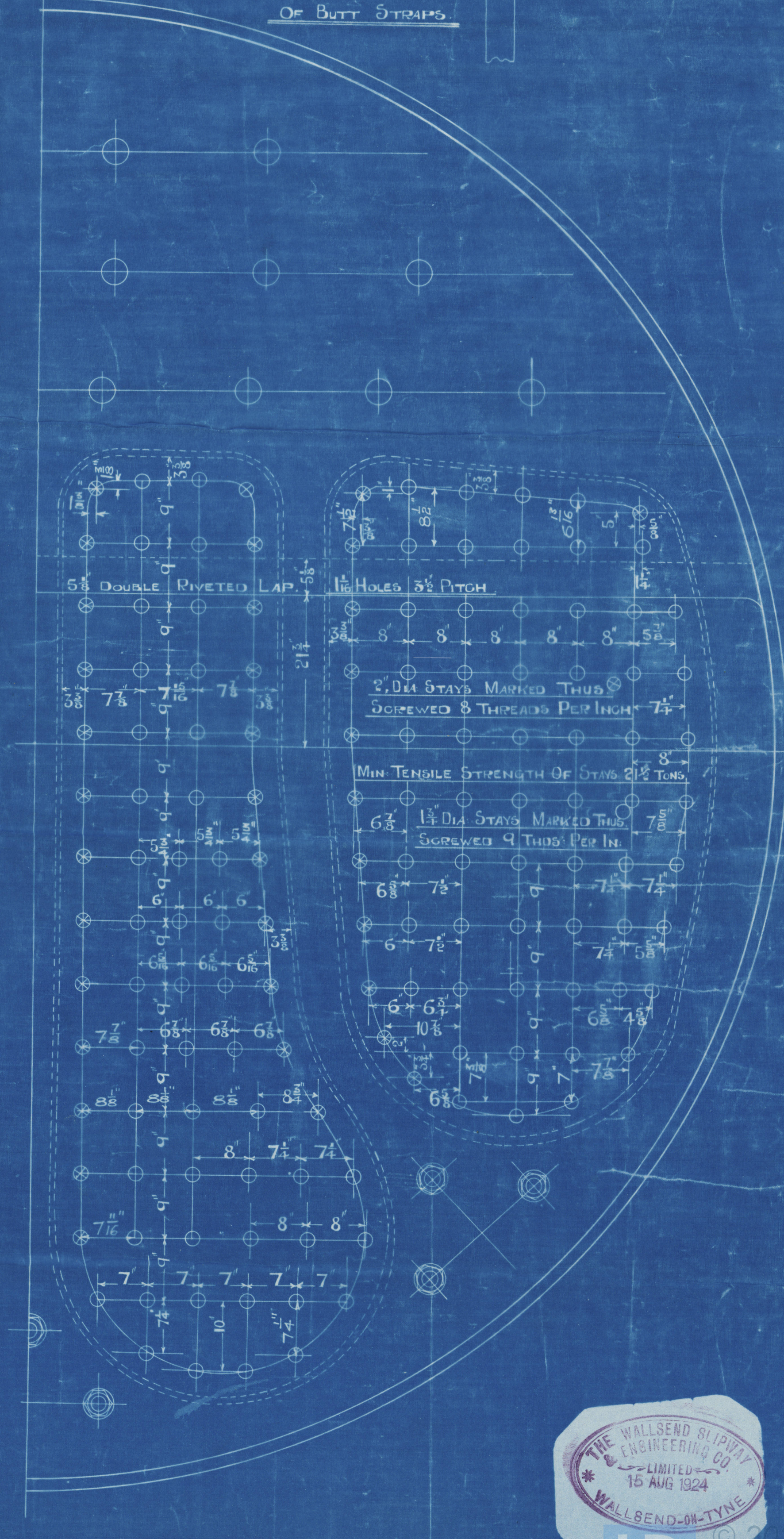
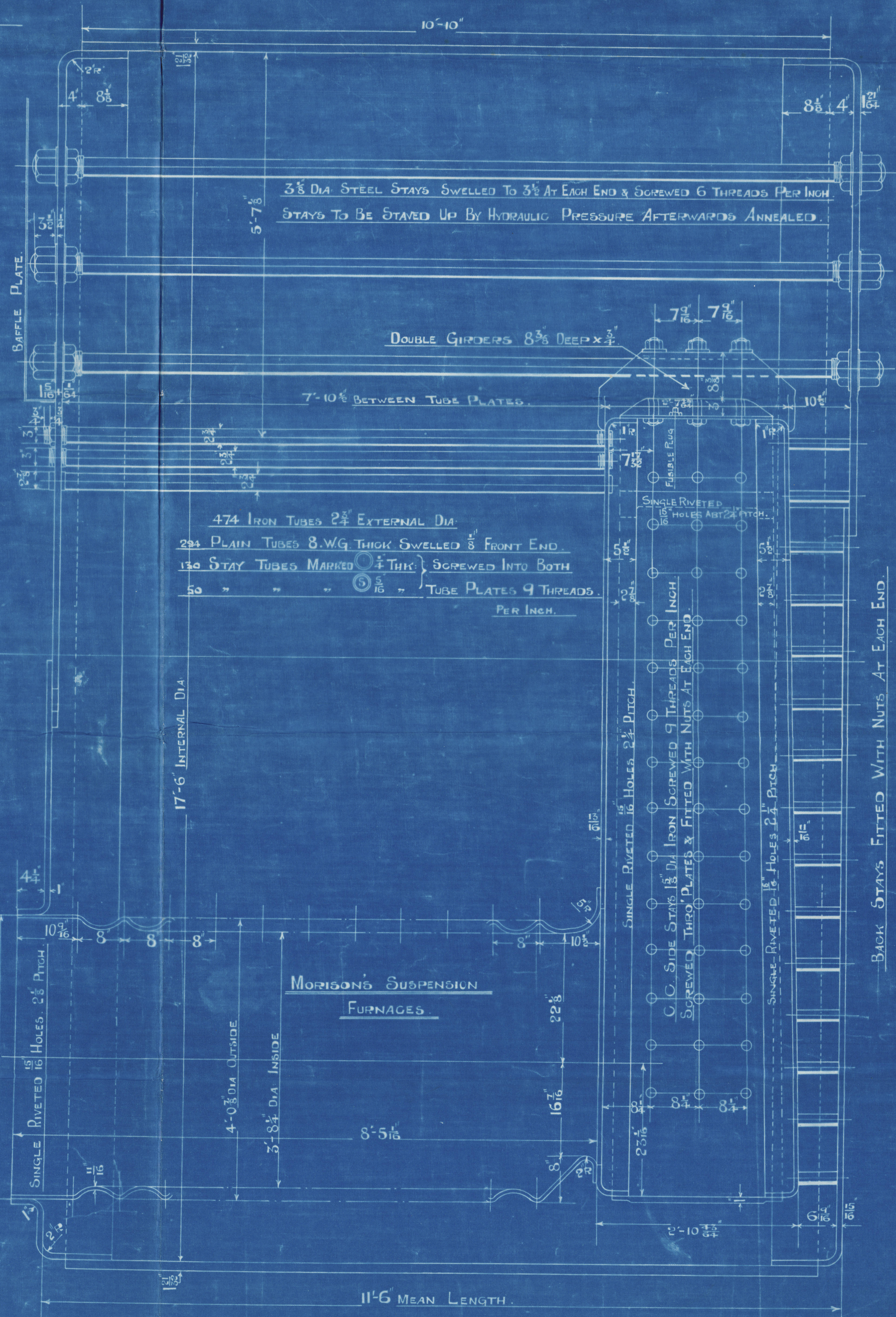
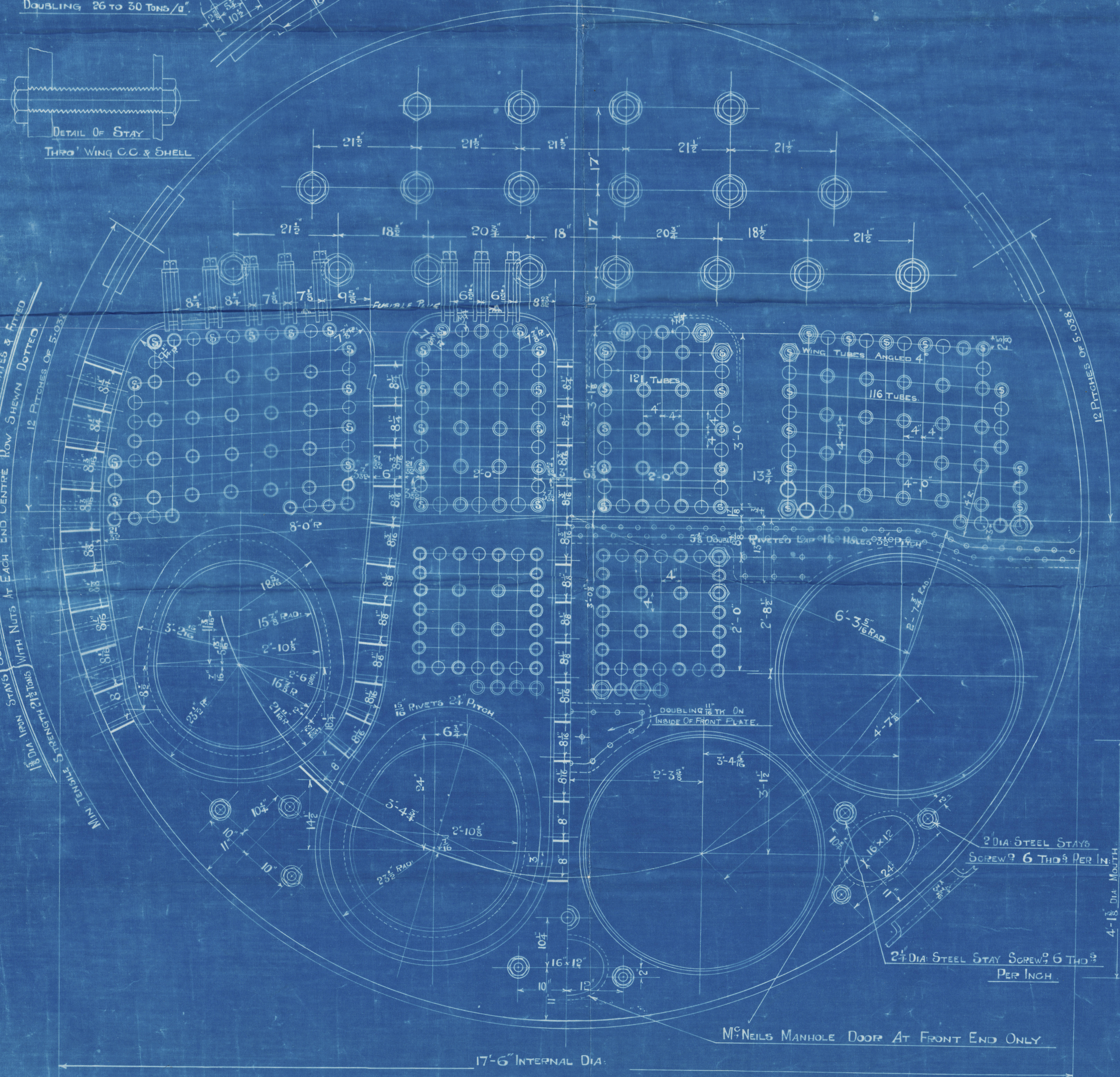
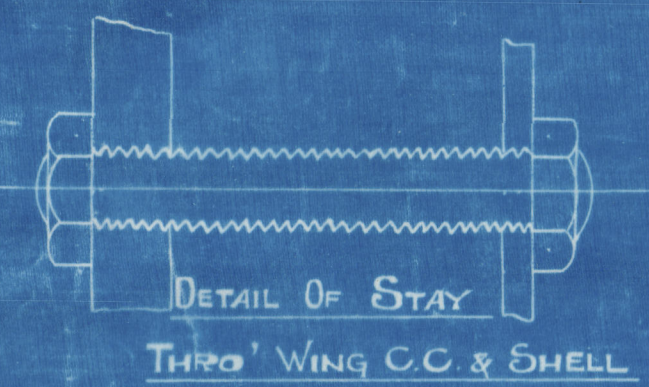
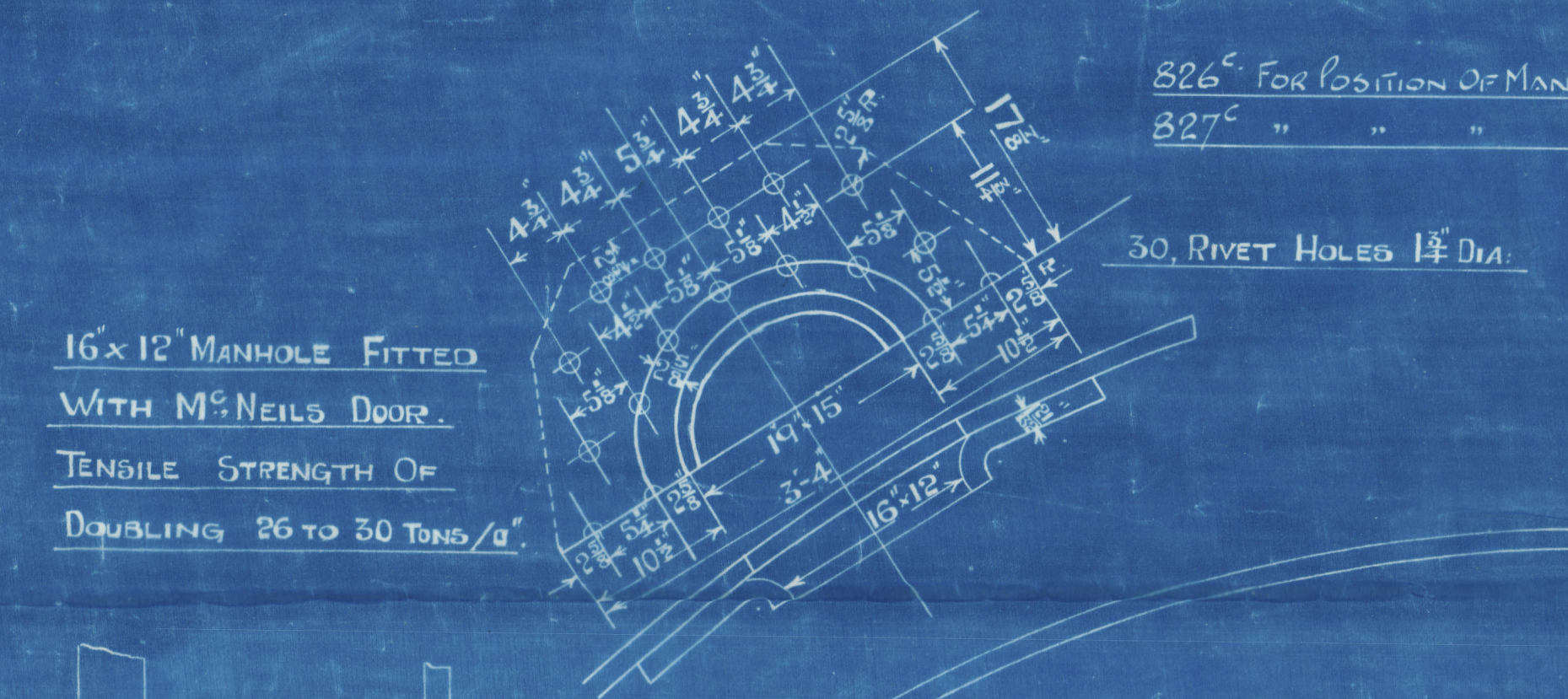
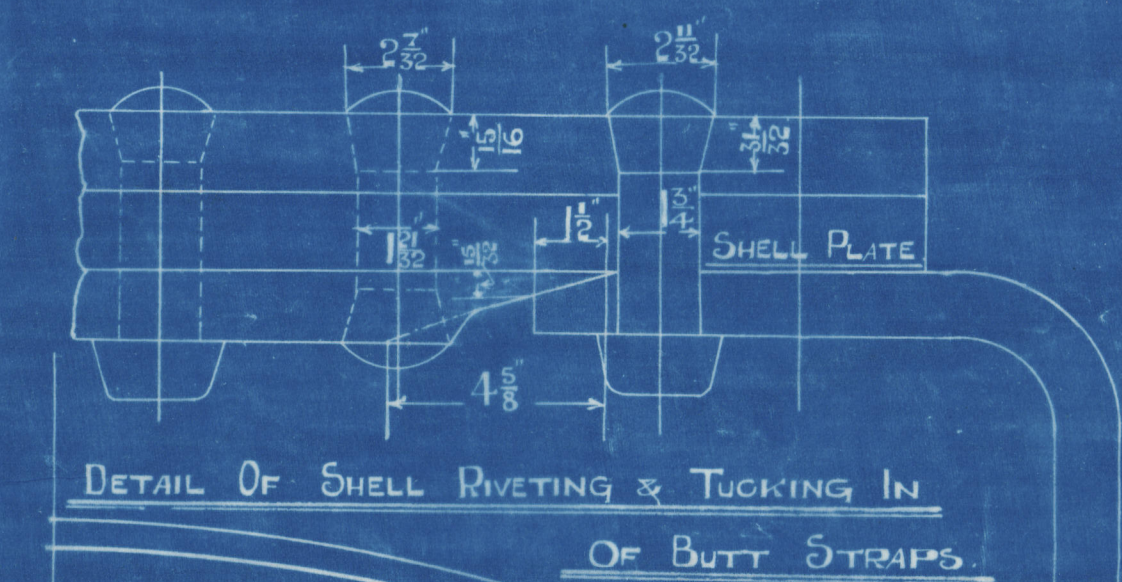
- MATERIALS:
PLATES STEEL
RIVETS STEEL
STAYS { LONGITUDINAL) STEEL
 { C.G. SCREWS) IRON.
TUBES IRON
WORKING PRESSURE 220 LBS PER SQ. INCH.
TEST " 385 " " " "

HEATING SURFACE	SQUARE FEET.
TUBES	2694
FURNACE	241
COMBUSTION CHAMBERS	323
TUBE PLATES INCLUDING FRONT.	119
I.S.E. BOILER.	3377
TOTAL S.E. BOILER.	10131

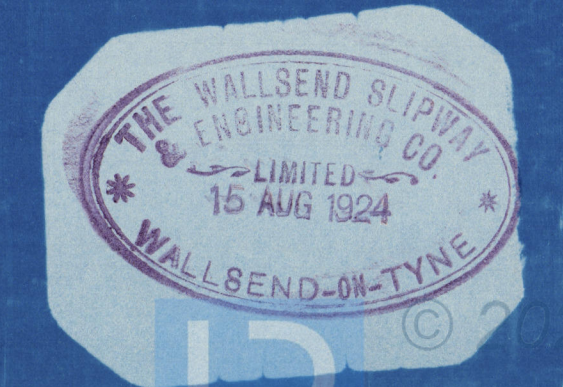
PLAN OF SHELL RIVETING
STRENGTH OF JOINT.
PLATE = 84.2%
RIVET = 88.7%.



SHELL HYDRAULIC RIVETED WHERE PRACTICABLE.
ALL HOLES DRILLED IN PLACE AFTER BENDING.
SHELL PLATES 1 1/8" THICK.
RIVET HOLES 1 1/2" DIA. x 10 1/2" PITCH.
END CIRCUMFERENTIAL SEAMS DOUBLE RIVETED.
RIVET HOLES 1 1/2" DIA. x 8.038" PITCH.
132 PITCHES IN CIRCUMFERENCE.
CIRCUMFERENTIAL PITCH TAKEN ON MEAN
DIA OF SHELL.



TENSILE STRENGTH OF INTERNAL & FLANGED PLATES = 26 TO 30 TONS PER SQ. INCH.
" " " " GIRDER PLATES = 28 TO 32 " " " "
FOR DETAILS OF RIVETING & THINNING AWAY OF FURNACE BACK & BACK TUBE PLATE & DETAIL OF TUBES.
SEE DRAWING OF D.E. BOILER.



W294-0129